

ABSTRACT

5 The mattress (1) is made of a block of flexible polyurethane foam (4) with a density of 40 Kg/m³ or of any other density, said block being firstly cut with a cut programmable automatic machine, by the main side and then turned at a 90° degree angle by its small side. A certain amount of springs (5) is thereby formed depending on each type of mattress (1).

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 The amount of spirals (5.1) of every spring (5) depends on the position of each spring in the mattress (1) with the purpose of varying the flexibility thereof so that the mattress (1) can perfectly adapt to the contour to of every user or so that the flexibility can remain constant throughout the entire mattress. Multiple variations can be realized while the height of the mattress remains the same (less spirals having the same spiral thickness and more base and uncut, etc.; the width of a spiral can be changed, as well as the number of spirals, the inclination of the axis of the spirals, the total height of an area-budge or cavity, etc. The upper surface of the product is covered with a viscous elastic layer (3) of polyurethane with a 50 Kg/m³ density, 4 cm thickness and threaded padding (2)

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